

Notice of Allowability	Application No.	Applicant(s)
	09/971,952	PRINDIVILLE ET AL.
	Examiner	Art Unit
	Lourdes C. Cruz	2827

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. This communication is responsive to An amendment filed 05-16-03.
2. The allowed claim(s) is/are 30-32 and 36-40.
3. The drawings filed on _____ are accepted by the Examiner.
4. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) All
 - b) Some*
 - c) None
 of the:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

5. Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
 - (a) The translation of the foreign language provisional application has been received.
6. Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. **THIS THREE-MONTH PERIOD IS NOT EXTENDABLE**

7. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
8. CORRECTED DRAWINGS must be submitted.
 - (a) including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) hereto or 2) to Paper No. _____.
 - (b) including changes required by the proposed drawing correction filed 22 July 2002, which has been approved by the Examiner.
 - (c) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No. _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet.

9. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1 <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)	2 <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)
3 <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)	4 <input checked="" type="checkbox"/> Interview Summary (PTO-413), Paper No. <u>32</u>
5 <input type="checkbox"/> Information Disclosure Statements (PTO-1449), Paper No. _____.	6 <input checked="" type="checkbox"/> Examiner's Amendment/Comment
7 <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit of Biological Material	8 <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance
	9 <input type="checkbox"/> Other

DETAILED ACTION

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Rupert on 06-10-2003.

The application has been amended as follows:

In the Specification:

Please amend the title to be "Semiconductor Package Having Defective Substrate"

In the claims:

In claim 30:

In line 4 of the claim, after "extending from", delete "th" and add -the—

In line 6 of the claim, after "so as to", delete "cove", and add -cover—

The following is an examiner's statement of reasons for allowance: There is prior art regarding semiconductor devices that are defective. These dies are commonly referred to in the art as defective or Known Bad Die or KBD. See US 6569753 to Akram

et al., US 6534876 to Glenn, and US6573112 to Kono et al. wherein the prior art of record discloses discarding of the Known Bad or defective dies in order to attach tested good dies to substrates thus avoiding waste of substrates or labor. Additionally, see that there is prior art regarding substrates having first and second surfaces, conductors, a die attach site, and a wire bond slot (See US6462274 to Shim et al. and US 6531335 to Grigg). Also see that Grigg above discloses defective substrates/interposers that are deleted from further processing.

The Application as amended discloses the specific limitations of a defective substrate having a first surface with a pattern of conductors and having a second surface with defective die attach area; a wire bond slot in the substrate extending from first to second surfaces, and a cover member attached to the defective substrate on the second surface as to cover at least a portion of the opening, wherein the cover does not comprise a functional die. This very specific limitations in combination with all other limitations in the claims make up for a device that is neither obvious over nor anticipated by the prior art of record, which fails to, either alone or in combination, anticipate the device as claimed. Therefore, the application is allowed.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

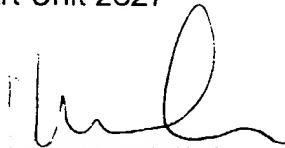
Any inquiry concerning this communication or earlier communications from the examiner should be directed to Elle Cruz whose telephone number is 703-306-5691. The examiner can normally be reached on M-F 10-6:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David L. Talbott can be reached on 703-305-9883. The fax phone numbers for the organization where this application or proceeding is assigned are 703-308-7722 for regular communications and 703-308-7722 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0956.


Elle Cruz
June 10, 2003

Lourdes C. Cruz
Examiner
Art Unit 2827


LOURDES C. CRUZ
USPTO PATENT EXAMINER
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